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DIALOG(R) File 351:Derwent WPI

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013259792 **Image available**

WPI Acc No: 2000-431675/200037

XRPX Acc No: N00-322109

Optical transmitter-receiver module has waveguides extending from receiver-chip to transmitter-chip, via grooves at bottom surface of receiver-chip

Patent Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Inventor: FROEJDH K

Number of Countries: 092 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200036448	A1	20000622	WO 99SE2366	A	19991215	200037 B
AU 200030908	A	20000703	AU 200030908	A	19991215	200046
SE 9804383	A	20000809	SE 984383	A	19981215	200054
SE 514478	C2	20010226	SE 984383	A	19981215	200119
TW 416017	A	20001221	TW 99104828	A	19990326	200133
KR 2001082343	A	20010829	KR 2001707416	A	20010614	200215
EP 1188085	A1	20020320	EP 99964871	A	19991215	200227
			WO 99SE2366	A	19991215	
CN 1330774	A	20020109	CN 99814468	A	19991215	200229
JP 2002532747	W	20021002	WO 99SE2366	A	19991215	200279
			JP 2000588631	A	19991215	
US 6625369	B1	20030923	US 99461372	A	19991215	200364

Priority Applications (No Type Date): SE 984383 A 19981215

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200036448 A1 E 12 G02B-006/43

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200030908 A

Based on patent WO 200036448

SE 9804383 A

G02B-006/43

SE 514478 C2

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TW 416017 A

G02B-006/42

KR 2001082343 A

H04B-010/02

EP 1188085 A1 E

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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

CN 1330774 A

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JP 2002532747 W

13 G02B-006/122

Based on patent WO 200036448

US 6625369 B1

G02B-006/42

Abstract (Basic): WO 200036448 A1

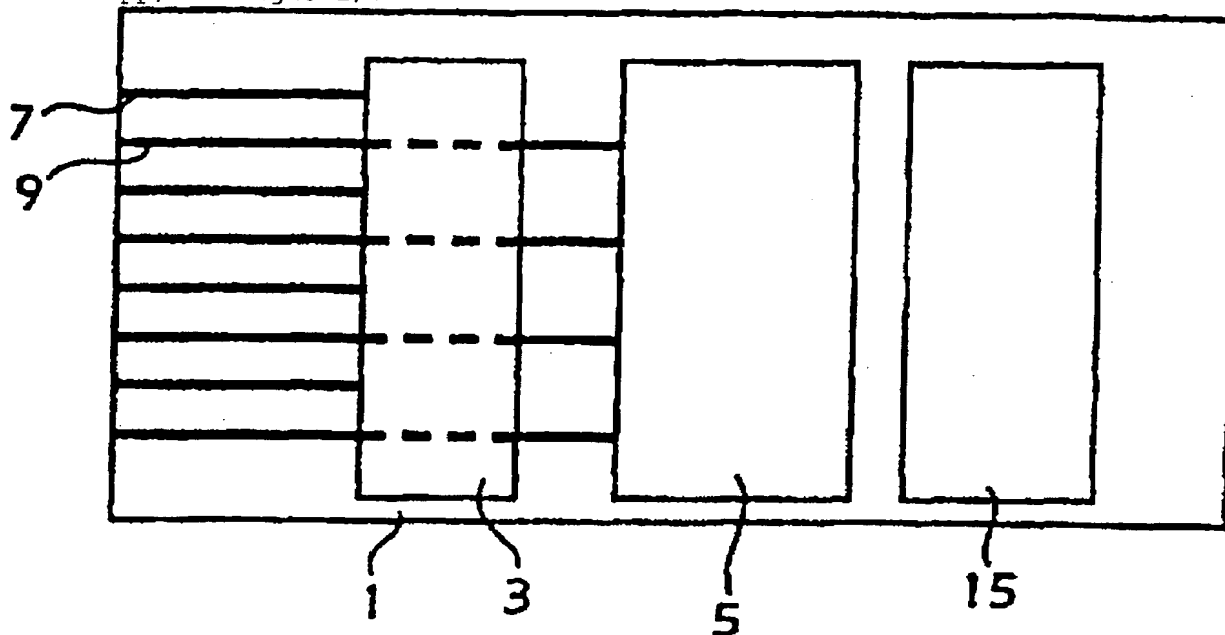
NOVELTY - The waveguides (7) extend from the front edge of substrate (1) and end at edge of receiver chip (3). The waveguides (9) extending to the transmitter chip (5) pass through the grooves at the bottom surface of the receiver chip. The waveguides extend in parallel, on the front edge of the substrate.

USE - For optical transmitters and receivers in same array device with small total area.

ADVANTAGE - Arrangement design of the waveguides allows a straight configuration of the waveguides. Since no space on the substrate is required for bends of the waveguides, the substrate can be made with minimum dimensions.

DESCRIPTION OF DRAWING(S) - Figure shows a schematic view of substrate comprising integrated waveguides and transmitter and receiver chip.

Substrate (1)
Receiver chip (3)
Transmitter chip (5)
Waveguides (7,9)
pp; 12 DwgNo 1/7



Title Terms: OPTICAL; TRANSMIT; RECEIVE; MODULE; WAVEGUIDE; EXTEND; RECEIVE
; CHIP; TRANSMIT; CHIP; GROOVE; BOTTOM; SURFACE; RECEIVE; CHIP
Derwent Class: P81; V07
International Patent Class (Main): G02B-006/122; G02B-006/42; G02B-006/43;
H04B-010/02
International Patent Class (Additional): H01L-031/0232; H01S-005/022
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): V07-G02; V07-G10C; V07-G10D

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Priority Applications (No Type Date): SE 984383 A 19981215

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200036448	A1	E	12	G02B-006/43	
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Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200030908	A				Based on patent WO 200036448
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SE 9804383	A			G02B-006/43	
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SE 514478	C2			G02B-006/43	
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TW 416017	A			G02B-006/42	
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KR 2001082343	A			H04B-010/02	
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EP 1188085	A1	E		G02B-006/43	Based on patent WO 200036448
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

CN 1330774	A			G02B-006/43	
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JP 2002532747	W		13	G02B-006/122	Based on patent WO 200036448
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US 6625369	B1			G02B-006/42	
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Abstract (Basic): WO 200036448 A1

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Derwent Class: P81; V07

International Patent Class (Main): G02B-006/122; G02B-006/42; G02B-006/43;
H04B-010/02

International Patent Class (Additional): H01L-031/0232; H01S-005/022

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): V07-G02; V07-G10C; V07-G10D

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